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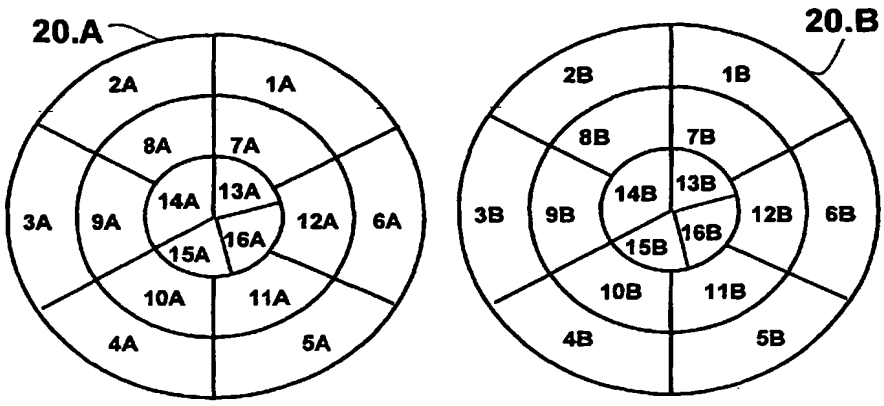
(54) Title: IMAGE PROCESSING METHOD FOR DISPLAYING INFORMATION RELATING TO PARIETAL MOTIONS OF A DEFORMABLE 3-D OBJECT




(57) Abstract: Image processing system for displaying information relating to the amplitude of displacements of wall regions of a deformable 3-D object under study, comprising acquisition means to acquire an image sequence of the simplified 3D object wall; and processing means to process the image data for defining region(s) of interest on the simplified 3D object wall, and computing the maximal amplitudes of displacement of said region(s) of interest over a period of time; constructing two 2D simplified representations (bull's eye representations) of the 3D simplified object wall with projection of the region(s) of interest in respective segments of said 2D simplified representations, respectively denoted by 2D simplified amplitude and phase representations; and further comprising display means to display color coded indications of the maximal amplitudes of displacements of the region(s) of interest over a period of time in the respective segments of the 2D simplified amplitude representation; and the display of color coded indications of the instants of time at which the maximum of amplitudes of displacements occur(s) in the region(s) of interest, over said period of time, in the respective segments of the 2D simplified phase representation. The 2D simplified amplitude and phase representations are preferably displayed together in a same image. The object under study can be the heart left ventricle. The image sequence can be provided and processed by an ultrasound system.

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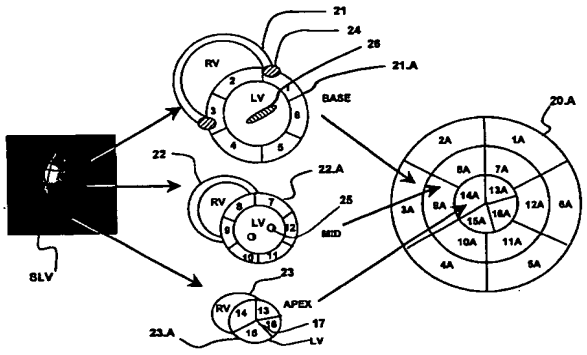


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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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